Claims:

1. A system to control a communication rate between electrical components, comprising: a first component including a first port to be coupled to a first number of communication channels, said first port to control communication between the first port and the communication channels at a first communication rate, such that said first port is to communicate with a second number of communication channels in response to triggering event, said number being less than said first number.

2. The system of claim 1, wherein a reconfiguration is performed by a power manager to change from communication with the first number of channels to the second number of channels.

3. The system of claim 1, wherein a reconfiguration is performed by a thermal manager to change from communication with the first number of channels to the second number of channels.

4. The system of claim 1, wherein a reconfiguration is performed by an operating system under Operating System-based Power Management (OSPM) to change from communication with the first number of channels to the second number of channels.

5. The system of claim 1, wherein said first number of channels includes said second number of channels as a subset.

6. The system of claim 5, wherein an Interconnect bus includes said first number of communication channels.

7. The system of claim 1, wherein a reconfiguration is performed to change from communication with the first number of channels to the second number of channels in response to said triggering event as a system management policy-based decision.

8. The system of claim 7, wherein said policy-based decision involves analysis of a number of decision criteria.

9. The system of claim 8, wherein said number of decision parameters include: Power Management; Thermal Management; Reliability, Availability, and Serviceability (RAS); and System Performance.

10. The system of claim 8, wherein said analysis and said reconfiguration occur at a time after system boot-up.

11. A method to control the communication rate of electrical components comprising:

utilizing, by a first component, a first number of communication channels to communicate with a second component at a first communication rate;

utilizing, by said first component, a second number of communication channels to communicate with said second component at a second communication rate; and

reconfiguring between the utilization of said first number of channels and said second number of channels in response to a triggering event.

12. The method of claim 11, wherein said reconfiguration is performed by a power manager.

13. The method of claim 11, wherein said reconfiguration is performed by a thermal manager.

14. The method of claim 11, wherein said reconfiguration is performed by an operating system under Operating System based Power Management (OSPM).

15. The method of claim 11, wherein said first number of channels includes said second number of channels as a subset.

16. The method of claim 15, wherein an Interconnect bus includes said first number of communication channels.

17. The method of claim 11, wherein said reconfiguration is performed in response to said triggering event as a system management policy-based decision.

18. The method of claim 17, wherein said policy-based decision involves analysis of a number of decision criteria.

19. The method of claim 18, wherein said number of decision parameters include: Power Management; Thermal Management; Reliability, Availability, and Serviceability (RAS); and System Performance.

20. The method of claim 18, wherein said analysis and said reconfiguration occur at a time after system boot-up.

21. A set of instructions residing in a storage medium, said set of instructions capable of being executed by a processor to control the communication rate of electrical components comprising:

utilizing, by a first component, a first number of communication channels to communicate with a second component at a first communication rate;

utilizing, by said first component, a second number of communication channels to communicate with said second component at a second communication rate; and

reconfiguring between the utilization of said first number of channels and said second number of channels in response to a triggering event.

22. The set of instructions of claim 21, wherein said reconfiguration is performed by a power manager.

23. The set of instructions of claim 21, wherein said reconfiguration is performed by a thermal manager.

24. The set of instructions of claim 21, wherein said reconfiguration is performed by an operating system under Operating System based Power Management (OSPM).

25. The set of instructions of claim 21, wherein said first number of channels includes said second number of channels as a subset.

26. The set of instructions of claim 25, wherein an Interconnect bus includes said first number of communication channels.

27. The set of instructions of claim 21, wherein said reconfiguration is performed in response to said triggering event as a system management policy-based decision.

28. The set of instructions of claim 27, wherein said policy-based decision involves analysis of a number of decision criteria.

29. The set of instructions of claim 28, wherein said number of decision parameters include: Power Management; Thermal Management; Reliability, Availability, and Serviceability (RAS); and System Performance.

30. The set of instructions of claim 28, wherein said analysis and said reconfiguration occur at a time after system boot-up.